

5040

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/520,738  
Source: PCT  
Date Processed by STIC: 1-18-05

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/520,738

DATE: 01/18/2005  
TIME: 14:59:44

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Output Set: N:\CRF4\01182005\J520738.raw

3 <110> APPLICANT: THE DEPARTMENT OF AGRICULTURE, WESTERN AUSTRALIA  
 5 <120> TITLE OF INVENTION: WHEAT PLANTS HAVING INCREASED RESISTANCE TO  
 6 IMIDAZOLINONE HERBICIDES  
 8 <130> FILE REFERENCE: 16313-0234  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/520,738  
 C--> 11 <141> CURRENT FILING DATE: 2005-01-10  
 13 <150> PRIOR APPLICATION NUMBER: 60/394,991  
 14 <151> PRIOR FILING DATE: 2002-07-10  
 16 <160> NUMBER OF SEQ ID NOS: 9  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 509  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Triticum aestivum  
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 27 caatggatt tgggttacca gctgcagctg ggcgtgctgt ggccaaccca ggtgttacag 120  
 28 ttgttgacat tgatggtgat gtaggtttcc tcatgaacat tcaggagttg gcggtgatcc 180  
 29 gcattgagaa cctcccaagtg aagggtatga tattgaacaa ccagcatctg ggaatggtgg 240  
 30 tgcagtggga ggtatggttt tacaaggcca atcgggcgca cacatacctt ggcaacccag 300  
 31 aaaatgagag tgagatataat ccagattttg tgacgattgc taaaggattc aacgttccag 360  
 32 cagttcaggt gacgaagaag agcgaagtca ctgcagcaat caagaagatg cttgagaccc 420  
 33 cagggccata cttgttggat atcatagttc cgcatcagga gcacgtgctg cctatgatcc 480  
 34 caaacggtg tgcttcaag gacatgatc 509  
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 38 <211> LENGTH: 169  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Triticum aestivum  
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 43 Ala Gln Tyr Tyr Thr Tyr Lys Arg Pro Arg Gln Trp Leu Ser Ser Ser  
 44 1 5 10 15  
 46 Gly Leu Gly Ala Met Gly Phe Gly Leu Pro Ala Ala Ala Gly Ala Ala  
 47 20 25 30  
 49 Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Gly Asp Gly Ser  
 50 35 40 45  
 52 Phe Leu Met Asn Ile Gln Glu Leu Ala Leu Ile Arg Ile Glu Asn Leu  
 53 50 55 60  
 55 Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val Val  
 56 65 70 75 80  
 58 Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr Leu  
 59 85 90 95  
 61 Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr Ile  
 62 100 105 110

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64 Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser Glu  
65 115 120 125  
67 Val Thr Ala Ala Ile Lys Lys Met Leu Glu Thr Pro Gly Pro Tyr Leu  
68 130 135 140  
70 Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile Pro  
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73 Asn Gly Gly Ala Phe Lys Asp Met Ile  
74 165  
77 <210> SEQ ID NO: 3  
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79 <212> TYPE: DNA  
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84 gcaatggat ttgggttacc agctgcagct ggcgtcgctg tggccaaacc 120  
85 gttgttgaca ttgatggaga tggtagtttc ctcatgaaca ttcaggagtt ggcattgatc 180  
86 cgtattgaga acctccctgt gaaggtgatg atattgaaca accagcatct gggaatggtg 240  
87 gtgcaatggg aggatagtt ttacaaggcc aatcgggcgc acacataacct tggcaaccca 300  
88 gaaaatgaga gtgagatata tccagattt gtgacgattt ctaaaggatt caacgttccg 360  
89 gcagttcggt tgacgaagaa gagcgaagtc actgcagcaa tcaagaagat gctttagacc 420  
90 ccagggccat acttgggat tatcatcgat cccatcgagg agcacgtgt gcctatgatc 480  
91 ccaaacgggtg gtgcttcaa ggacatgatc atggagggtg atggcaggac ctcgtactga 540  
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97 <212> TYPE: PRT  
98 <213> ORGANISM: Triticum aestivum  
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102 1 5 10 15  
104 Ser Gly Leu Gly Ala Met Gly Phe Gly Leu Pro Ala Ala Gly Ala  
105 20 25 30  
107 Ala Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Gly Asp Gly  
108 35 40 45  
110 Ser Phe Leu Met Asn Ile Gln Glu Leu Ala Leu Ile Arg Ile Glu Asn  
111 50 55 60  
113 Leu Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val  
114 65 70 75 80  
116 Val Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr  
117 85 90 95  
119 Leu Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr  
120 100 105 110  
122 Ile Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser  
123 115 120 125  
125 Glu Val Thr Ala Ala Ile Lys Lys Met Leu Glu Thr Pro Gly Pro Tyr  
126 130 135 140  
128 Leu Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile  
129 145 150 155 160  
131 Pro Asn Gly Gly Ala Phe Lys Asp Met Ile

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138 <213> ORGANISM: Artificial Sequence  
140 <220> FEATURE:  
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
142 conserved peptide sequence  
144 <400> SEQUENCE: 5  
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149 <210> SEQ ID NO: 6  
150 <211> LENGTH: 4  
151 <212> TYPE: PRT  
152 <213> ORGANISM: Artificial Sequence  
154 <220> FEATURE:  
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
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158 <400> SEQUENCE: 6  
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164 <211> LENGTH: 19  
165 <212> TYPE: PRT  
166 <213> ORGANISM: Artificial Sequence  
168 <220> FEATURE:  
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
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174 1 5 10 15  
176 Thr Arg Ser  
179 <210> SEQ ID NO: 8  
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181 <212> TYPE: PRT  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
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193 <210> SEQ ID NO: 9  
194 <211> LENGTH: 5  
195 <212> TYPE: PRT  
196 <213> ORGANISM: Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
200 conserved peptide sequence

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202 <400> SEQUENCE: 9  
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204 1 5

**VERIFICATION SUMMARY**  
PATENT APPLICATION: **US/10/520,738**

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TIME: 14:59:45

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